10/12/98

## **RECLAMATION SURETY ESTIMATE**

Valley Asphalt, Inc. 2

Lehi Quarry 3 M/049/031

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**Utah County** 

filename: m49-31tg.wb2

last unit cost update

11/18/98

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last revision

Prepared by Utah State Division of Oil. Gas & Mining

## -SHADED LINE ITEMS WERE REVISED 11/18/98 PER PHONE CONVERSATION w/Arjun Ram

- -This is a revised version of Valley Asphalt's estimate in the August 14, 1998 response
- -This estimate is based on the reclamation plan from the response received Aug. 14, 1998 8
- -Most equipment is skid or wheel mounted except for asphalt storage bins with reinforced concrete 9
- -All structures & facilities to be removed or demolished; concrete foundations demolished 10
- Skid or wheel mounted facilities to be trucked off site 11
- -Top soil from Berm area will be spread (assumed 2,000 ft haul distance one-way for scraper) 12
- -Topsoil may need to be trucked in from off site borrow areas 13
  - -A minimum of 6" of topsoil to be spread in the berm area & operations area & then seeded
- -A minimum of 12" of topsoil to be spread in the pit bottom area & then seeded 15
- -Paved road entrance to be ripped & a minimum of 6" of topsoil to be spread & then seeded 16
  - -Three phases of mining have now been replaced by one phase
- -Acreage: berm area 9.7, asphalt crushing & yard 16.0, excavation 95.3, road 0.57, highwall 24.0 18
  - -The highwall area (24.0 acres) will not be topsoiled or seeded variance

Note: actual unit costs may vary according to site conditions

20	-Amount of disturbed area which will receive reclamation treatments = 121.6 acres					
21						
22	Estimated total disturbed area for this mine =			145.6	145.6 acres	
23	Activity	Quantity	<u>Units</u>	\$/unit	\$	Note
24	Safety signs, etc. (mtls & installation)	1	sum	500	500	(1)
25	Demolition of concrete foundations - silos	3,300	SF	6.06	19,998	(2)
26	Demolition of concrete foundations - fuel tanks	1,000	SF	5.05	5,050	(2a)
27	Equipment removal - loading & trucking	13	trips	530	6,890	(3)
28	Debris & equipment removal - dump fees	10	ton	50	500	(4)
29	Debris removal - loading trucks w/FE loader	4	hours	170	680	(5)
30	Demolition & debris removal - general labor	32	hours	15	480	(6)
31	Ripping "facilities area"	8.0	acre	581	4,648	(7)
32	Installing safety fencing around highwalls	5,740	LF	1.00	5,740	(8)
33	Ripping asphalt access road - dozer	0.6	acre	581	349	(7)
34	Surface drainage restoration - undocumented	1,800	LF	0.20	360	(9)
35	Topsoil replacement - dozer spreading	174,942	CY	0.20	34,988	(10)
36	Topsoil replacement - scraper haulage	174,942	CY	1.08	188,937	(11)
37	Fertilizing ( 100 lb/acre diammonium phosphate)	121.6	acre	90	10,944	(00)
38	Drill seeding (~13 lb/acre)	121.6	acre	220	26,752	(00)
39	General site cleanup & trash removal - yard 50%	8.0	acre	50	400	(00)
40	Equipment mobilization	6	equip	500	3,000	(00)
41	Reclamation Supervision	15	days	363	5,445	(12)
42			Subtotal		315,661	
43	10% Contingency				31,566	
44			Subtotal		\$347,227	-
45	Escalate for 5 years at 2.24% per yr				40,671	
46			Total		\$387,899	
47	Rounded surety amount in yr 2003-\$ \$387,9				\$387,900	
48	Average cost per disturbed acre =	\$2,664			Cile	

Rounded surety amount in yr 2003-\$ \$387,900

Average cost per disturbed acre = \$2,664

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## Note

- (1) DOGM lump sum assumed
- (2) Means Heavy Construction Cost Data 1998, 020-754-0440, concrete removal, floors, 6" thick, reinforced rods +20% heavy reinforce(1
- (2a) Means Heavy Construction Cost Data 1998, 020-75004440, concrete removal, floors, 6" thick, reinforced rods
- (3) DOGM estimate taken from similar operation file M/035/012
- (4) Means 1998, 020-612-0100, bldg construction mtls
- (5) Rental Rate Blue Book 4/98, Cat 988B, 7CY, & Means 1998, Crew B-10U
- (6) DOGM assumed wage for unskilled general labor
- (7) Means 1998 & Rental Rate Blue Book 4/98: Cat D10N, U, multi shank rippers, speed 0.5 mph
- (8) DOGM general estimate for field fence, 4 strand barbwire
- (7) Means 1998 & Rental Rate Blue Book 4/98: Cat D10N, U, multi shank rippers, speed 0.5 mph
- (9) Means 1998 & Rental Rate Blue Book 4/98: Cat D10N, U, mtl 2550 lb/CY, 50 ft push, avg vol 1.0CY/LF- assumed
- (10) Means 1998 & Rental Rate Blue Book 4/98: Cat D10N, U, mtl 2550 lb/CY, 50 ft push
- (11) Means 1998 & Rental Rate Blue Book 4/98: Cat 627F P-P, mtl 2550 lb/CY, 2,000 ft haul one-way, grade +/- 4%,
- (00) DOGM general estimate fertilizing
- (00) DOGM general estimate drill seeding
- (00) DOGM general estimate site cleanup & trash removal
- (00) DOGM general estimate equipment mobilization 50 miles or less
- (12) Means 1998, 010-036-0180, project manager, minimum \$1,815/wk